

PATENTS

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of LUTZ AXEL MAY, et al.

Serial No.

Filed:

For: MAGNETISED TORQUE TRANSDUCER ELEMENTS

#4/A  
J. L.  
5/29/02PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231  
Box Non-Fee Amendment

Sir:

Please enter this amendment prior to calculating the filing fee for this case.

IN THE CLAIMS

A marked-up version of the claims is attached as Exhibit A hereto.

A clean version of the claims follows:

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1. (Amended) A transducer element of a magnetic material for a torque or force sensor comprising at least one closed loop of magnetisation established within the material, the transducer element emanating a magnetic field that is a function of torque or force over a range of torque or force values,

wherein said emanated magnetic field has a non-zero value at zero torque or force.

2. (Amended) A transducer element as claimed in claim 1 characterized in that the element is formed by subjecting the element to a predetermined torque or force while establishing the closed loop of magnetization therein or at least one of the closed loops of magnetization therein.